

CORRECTED VERSION

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 25 March 2004 (25.03.2004)

PCT

(10) International Publication Number WO 2004/025208 A1

(51) International Patent Classification⁷:

F28F 9/26

(21) International Application Number:

PCT/JP2003/010620

- (22) International Filing Date: 21 August 2003 (21.08.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2002-240927

60/407,945

21 August 2002 (21.08.2002) 5 September 2002 (05.09.2002)

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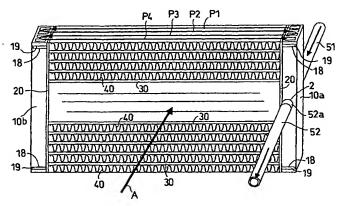
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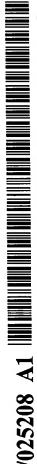
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: HEAT EXCHANGER, METHOD FOR MANUFACTURING HEAT EXCHANGER, TUBE CONNECTING STRUC-TURE FOR HEAT EXCHANGER HEADER TANK, GAS COOLER USING SUPERCRITICAL REFRIGERANT, AND REFRIG-**ERANT SYSTEM**



(57) Abstract: A heat exchanger according to the present invention includes a pair of header tanks 10a and 10b and a plurality of heat exchanging tubes 30 disposed between the header tanks and arranged in parallel. The header tank 10 and 10b is provided with partitioning walls 15 integrally formed to the header tank along the longitudinal direction. The inside space of the header tank is divided by the partitioning walls 15 into tank partions 11 to 014. Refrigerant turning communication apertures 17 are formed in the predetermined partitioning wall 15. The refrigerant passages 35 of the heat exchanging tube 30 are grouped so as to correspond to each tank portion of the header tank 10a and 10b to thereby form a plurality of passes P1 to P4. The refrigerant introduced into the first tank portion 11 of one of the header tanks 10a passes through each passes P1 to P4 in this order from the rear side toward the front side, and then introduced into the fourth tank portion 14 of the other of the header tanks 10b. According to this heat exchanger, enough pressure resistance and heat exchanging performance can be obtined.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(15) Information about Correction: see PCT Gazette No. 09/2005 of 3 March 2005, Section II

Published:

- with international search report
- (48) Date of publication of this corrected version:

3 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/10620

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl' F28F9/26				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ F28F9/26				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1926-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2003, Japanese Registered Utility Model Gazette 1994-2003 , Japanese Gazette Containing the Utility Model 1996-2003				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
Y	JP 2001-336896 A(MATSUSHIT INDUSTRIAL CO.,LTD.)2001.1		1-19	
Y	JP 2000-81294 A(DENSO CORPORATION) 2000.03.21(Family:None)		1-19	
- Further	a degraments are listed in the continuation of Pau C			
Further documents are listed in the continuation of Box C. See patent family annex. * Special categories of cited documents: "T" later document published after the international filing date or priority				
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the priority date claimed		a document memora of the same patent	eate of mailing of the international search report	
16.12.03		13.01.04	on roport	
Name and mailing address of the ISA/JP		Authorized officer	3M 8610	
Japan Patent Office		YOICHI NAGASAKI	377	